

What is claimed is:

1. A method for fabricating a semiconductor device, comprising the steps of:

5 forming a plurality of gate line patterns on a substrate with a defined cell region and a peripheral circuit region;

forming sequentially a first insulation layer and a second insulation layer;

forming a first mask layer covering the cell region on
10 the second insulation layer in the cell region and forming a second mask layer in the peripheral circuit region with a predetermined distance from the first mask layer;

etching the second insulation layer with use of the first and the second mask layers as an etch mask to form a
15 spacer at both sidewalls of each gate line pattern in the peripheral region and simultaneously form a guard beneath the second mask layer;

removing the first and the second mask layers;

forming a third mask layer opening the cell region but
20 covering the whole regions including a guard region in the peripheral circuit region; and

performing a wet etching process to the second insulation layer remaining in the cell region by using the third mask layer as an etch mask.

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2. The method as recited in claim 1, wherein the second

mask layer is disposed with a separation distance from the first mask layer and opens a boundary region between the cell region and the peripheral circuit region.

5 3. The method as recited in claim 1, wherein the spacer and the guard beneath the second mask layer are formed through an etch-back process performed to the first and the second insulation layers until a surface of the substrate in the peripheral circuit region is exposed.

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 4. The method as recited in claim 1, wherein the first insulation layer is a stacked layer of an oxide layer and a nitride layer and the second insulation layer is an oxide layer.

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 5. The method as recited in claim 1, wherein the step of performing the wet etching process to the second insulation layer is carried out by using hydrofluoric acid (HF).